

CLAIM AMENDMENTS

Claims 1-20 are pending. Claims 1, 8, 13 and 17 have been amended.

1 1. (Currently Amended) A method for controlling network digital broadcasting service,
2 comprising steps of:

3 directly requesting, at a client, a digital broadcasting server for a session connection, and
4 establishing a session by receiving a confirmation message for the session connection from the
5 digital broadcasting server; and

6 directly requesting, at the client, the digital broadcasting server for a channel change, and
7 changing a channel by receiving a confirmation message for confirming the channel change from
8 the digital broadcasting server,

9 wherein a message for requesting the channel change and the confirmation message for
10 confirming the channel change each include a DSM-CC (Digital Storage Media-Command and
11 Control) message header field.

1 2. (Original) The method according to claim 1, further comprising:

2 receiving, at the client, a message for checking a status of the client from the digital
3 broadcasting server, and directly delivering a confirmation message for checking the status of the
4 client to the digital broadcasting server.

1 3. (Original) The method according to claim 1, further comprising:

2 directly requesting, at the client, the digital broadcasting server for a session termination and

3 terminating a session by receiving a confirmation message for the session termination from the
4 digital broadcasting server.

1 4. (Original) The method according to claim 1, further comprising:

2 directly requesting, at the digital broadcasting server, the client for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 client.

1 5. (Original) The method according to claim 1, further comprising the step of directly

2 receiving, at the client, a session termination request from the digital broadcasting server, and
3 terminating a session if the client cannot transmit a response to the session termination request from
4 the digital broadcasting server.

1 6. (Original) The method according to claim 1, wherein a protocol between the client and

2 the digital broadcasting server is a TCP/IP (Transmission Control Protocol/Internet Protocol).

1 7. (Original) The method according to claim 1, wherein a message for requesting the session

2 connection is a SessionSetupRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a Session ID (Identification) field, a Reserved
4 field, a Client ID field, and a Server ID field, and the SessionSetupRequest message is transmitted
5 from the client to the digital broadcasting server.

1 8. (Currently Amended) The method according to claim 1, wherein [[a]] the message for
2 requesting the channel change is a ProgramSelectRequest message including: [[a]] the DSM-CC
3 (Digital Storage Media-Command and Control) message header field, a Session ID (Identification)
4 field, a STB (Set Top Box) status field, a broadcast ProgramId field, and a Client ID field, and the
5 ProgramSelectRequest message is transmitted from the client to the digital broadcasting server.

1 9. (Original) The method according to claim 2, wherein the message for checking the status
2 of the client is a ServerStatusRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a Reason field, a statusType field, a
4 resourceNumber field for showing a number of a resource whose status is wanted to be known, a
5 Reserved field, and a client ID field, and the ServerStatusRequest message is transmitted from the
6 digital broadcasting server to the client.

1 10. (Original) The method according to claim 3, wherein a message for requesting a session
2 termination is a ClientReleaseRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a session ID field, a Reason field, and a
4 ClientID field, and the ClientReleaseRequest message is transmitted from the client to the digital
5 broadcasting server.

1 11. (Original) The method according to claim 4, wherein a message for requesting a session
2 termination is a ServerReleaseRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a session ID field, a Reason field, and a

4 ClientID field, and the ServerReleaseRequest message is transmitted from the digital broadcasting
5 server to the client.

1 12. (Original) The method according to claim 1, wherein the confirmation message for
2 confirming the session connection is a SessionSetupConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a Session ID (Identification) field, a
4 response field, and a Server ID field, and the SessionSetupConfirm message is transmitted from the
5 digital broadcasting server to the client.

1 13. (Currently Amended) The method according to claim 1, wherein the confirmation
2 message for confirming the channel change is a ProgramSelectConfirm message including: [[a]] the
3 DSM-CC (Digital Storage Media-Command and Control) message header field, a Session ID
4 (Identification) field, a response field, a broadcast ProgramId field, and a Client ID field, and the
5 ProgramSelectConfirm message is transmitted from the digital broadcasting server to the client.

1 14. (Original) The method according to claim 2, wherein the confirmation message for
2 confirming the status of the client is a ServerStatusConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a Response field, a statusType field,
4 a resourceNumber field for showing a number of a resource whose status is wanted to be known, a
5 ressourceStatus field, and a client ID field, and the ServerStatusConfirm message is transmitted from
6 the client to the digital broadcasting server for confirming the status of the client.

1 15. (Original) The method according to claim 3, wherein the confirmation message for
2 confirming a session termination is a ClientReleaseConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a response field, and
4 a ClientID field, and the ClientReleaseConfirm message is transmitted from the digital broadcasting
5 server to the client.

1 16. (Original) The method according to claim 4, wherein the confirmation message for
2 confirming a session termination is a ServerReleaseConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a response field, and
4 a ClientID field, and the ServerReleaseConfirm message is transmitted from the client to the digital
5 broadcasting server.

1 17. (Currently Amended) A system controlling a network digital broadcasting service
2 comprises:

3 a client and a digital broadcasting server, the client directly requesting the digital
4 broadcasting server for a session connection, and establishing a session by receiving a confirmation
5 message for the session connection from the digital broadcasting server; and

6 the client directly requesting a program change from the digital broadcasting server and
7 receiving a confirmation message from the digital broadcasting server, when the digital broadcasting
8 server confirms the channel program change,

9 wherein a message requesting the program change and the confirmation message confirming
10 the program change each include a DSM-CC (Digital Storage Media-Command and Control)

11 message header field.

1 18. (Original) The system according to claim 17, further comprising:

2 the client periodically receiving a message from the digital broadcasting server for checking
3 a status of the client, and directly delivering a client status confirmation message, indicative of the
4 status of the client, to the digital broadcasting server.

1 19. (Original) The system according to claim 17, further comprising:

2 the client directly requesting the digital broadcasting server for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 digital broadcasting server.

1 20. (Original) The system according to claim 17, further comprising:

2 the digital broadcasting server directly requesting the client for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 client.